

PATENT CLAIMS

1. An injection device used for example for blow
molding hollow plastic bodies, comprising
5 temperature-controllable blowing mandrels (3)
inserted in a blowing mandrel holder (2), the
blowing mandrel holder (2) having cylindrical
recesses (9), in each of which a blowing mandrel
(3) is fixedly held, and the blowing mandrel holder
10 (2) and the blowing mandrels (3) having respective
channels (13, 14, 15, 16, 24, 25), which
communicate with one another in twos, in order to
make possible a fluid circulation for controlling
the temperature of the blowing mandrels,
15
characterized by a two-part design of the blowing
mandrel holder (2) with a supporting bar (4) and a
holding bar (5), which can be joined onto each
other and fastened and can be released from each
20 other and each have an identical number of half-
cylindrical recesses (7, 8), which complement one
another in the blowing mandrel holder (2) to form
cylindrical recesses (9), in each of which a
blowing mandrel (3) can be inserted when the
25 supporting bar (4) and the holding bar (5) are
released from each other and is fixedly held when
the supporting bar (4) and the holding bar (5) are
fastened on each other,
and by connecting pieces (30) in the form of
30 cylindrical sleeves, which seal the fluid
circulation with respect to a gap forming between
the blowing mandrel (3) and the supporting bar (4)
or the holding bar (5) and also hold the blowing
mandrel (3) fixedly on the blowing mandrel holder
35 (2).

2. The injection device as claimed in claim 1, characterized in that, with the supporting bar (4) and the holding bar (5) fastened on each other, the connecting pieces (30) in the form of cylindrical sleeves are inserted by their one end (31) into one of the channels (13, 15) provided in the supporting bar (4) and the holding bar (5) and by their other end (32) into one of the channels (16) provided in a blowing mandrel (3), and thereby connect said channels to one another respectively in twos (13-16; 15-16).
3. The injection device as claimed in claim 1, characterized in that a connecting piece (30) has on the outside in the vicinity of each of its ends (31, 32) a sealing groove (33) intended for receiving a sealing ring.
4. The injection device as claimed in claim 1, characterized by a two-part design of the holding bar (5) with a blowing mandrel connecting bar (17) and a fluid connecting bar (18) provided with an opening (26), which can be joined onto each other and fastened and can be released from each other and have respective channels (15, 16, 24, 25), which communicate with one another in the holding bar (5) in order to make possible a passage of the fluid circulation from the opening (26) provided on the fluid connecting bar (18) to and through the channels (16) arranged in the supporting bar (4) and in the blowing mandrels (3) up to an opening (11) provided on the supporting bar (4).
5. The injection device as claimed in claim (0) characterized by a two-part design of the fluid connecting bar (18) with a body (19) having channels (24, 25) and a cover (20), which can be

5 joined onto each other and fastened and can be released from each other, the channels (24, 25) being formed as grooves which are provided on the body (19) and covered over by the cover (20) and the opening (26) provided on the fluid connecting bar (18) being arranged on the cover (20).